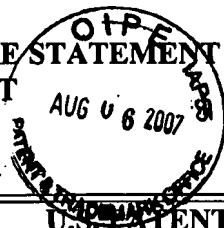


**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**


Attorney Docket Number	6682-77985-03
Application Number	10/509,570
Filing Date	September 29, 2004
First Named Inventor	Trinkle et al.
Art Unit	1609
Examiner Name	Layla D. Bland

U.S. PATENT DOCUMENTS

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Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
/L.B./		1988000198677	12/12/1989	Hadwiger
		2,040,879	5/19/1936	Rigby
		3,232,836	2/1/1966	Carlozzi et al.
		3,632,754	1/4/1972	Balassa
		3,903,268	9/2/1975	Balassa
		3,911,116	10/7/1975	Balassa
		3,914,413	10/21/1975	Balassa
		4,056,432	11/1/1977	Slagel et al.
		4,282,351	8/4/1981	Muzzarelli
		4,806,474	2/21/1989	Hershberger
		4,886,541	12/12/1989	Hadwiger
		4,948,881	8/14/1990	Naggi et al.
		4,970,150	11/13/1990	Yaku, et al.
		5,219,749	6/15/1993	Bouriotis et al.
		5,232,842	8/3/1993	Park et al.
↓		5,262,310	11/16/1993	Karube et al.
/L.B./		5,730,876	3/24/1998	You et al.

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Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
/L.B./		5,905,035	5/18/1999	Okada et al.
/L.B./		5,985,644	11/16/1999	Roseman et al.
/L.B./		5,998,173	12/7/1999	Haynes et al.
/L.B./		6,117,851	9/12/2000	Sherman et al.
/L.B./		6,333,399	12/25/2001	Teslenko et al.

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
/L.B./		EP	0885954	12/23/1998	
/L.B./		GB	458,839	12/21/1936	
/L.B./		JP	2149335 A2	6/7/1990	
/L.B./		JP	2180903 A2	7/13/1990	
/L.B./		JP	2200196 A2	8/8/1990	
/L.B./		JP	2229832 A2	9/12/1990	
/L.B./		JP	2258740 A2	10/19/1990	
/L.B./		JP	5068580 A2	10/23/1993	
/L.B./		JP	7330808 A2	12/19/1995	
/L.B./		JP	08-041106 (w/English translation)	02/13/1996	

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FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
/L.B./		JP	10297913 A2	11/10/1998	
/L.B./		JP	55012109 A2 (English Abstract)	1/28/1980	
/L.B./		JP	62070401 A2	3/31/1987	
/L.B./		JP	63097633 A2	4/28/1988	
/L.B./		JP	63225602 A2	9/20/1988	
/L.B./		WIPO	WO 98/42755	10/01/1998	
/L.B./		WIPO	WO 00/04182	1/27/2000	

OTHER DOCUMENTS

Examiner's Initials*	Cite No. (optional)	
/L.B./		AIBA, S., "Preparation of N-acetylchitooligosaccharides from lysozymic hydrolysates of partially N-acetylated chitosans" <u>Carbohydrate Research</u> , Vol. 261, pp. 297-306 (1994)
/L.B./		ALONSO, I., et al., "Determination of the Degree of Acetylation of Chitin and Chitosan by Thermal Analysis," <u>Journal of Thermal Analysis</u> , Vol. 28, pp. 189-193 (1983)
/L.B./		BARTNICKI-GARCIA S., "Cell Wall Chemistry, Morphogenesis, and Taxonomy of Fungi," <u>Chemistry of Fungal Cell Wall</u> , pp. 87-108 (1968)
/L.B./		BENJAKUL, S. et al., "Improvement of Deacetylation of Chitin from Black Tiger Shrimp (<i>Penaeus monodon</i>) Carapace and Shell," <u>ASEAN Food Journal</u> , Vol. 9, No. 4, pp. 136-140 (1994)
/L.B./		BERI, R. et al., "Characterization of Chitosans via Coupled Size-Exclusion Chromatography and Multiple-Angle Laser Light-Scattering Technique," <u>Carbohydrate Research</u> , Vol. 238, pp. 11-26 (1993)
/L.B./		BIERMANN, C., "Hydrolysis and Other Cleavage of Glycosidic Linkages," Chapter 3, pp. 29-41 (date unknown)
/L.B./		CARLSON, T. et al., "Chitin/Chitosan Extraction from <i>A. Niger</i> Mycelium," <u>Cargill Central Research</u> , 16 pages (August 1997)

EXAMINER SIGNATURE:	/Layla Bland/	DATE CONSIDERED:	09/18/2007
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/L.B./		"Chitin/Chitosan Specifications," <u>Biopolymer Engineering, Inc.</u> , http://www.biopolymer.com/spec.htm , 1 page (date printed March 4, 1999)
/L.B./		DAVIES, D., et al., "Determination of the Degree of Acetylation of Chitin and Chitosan," <u>Methods in Enzymology</u> , Vol 161, Part B, pp. 442-446 (1988)
/L.B./		DOMSZY, J. et al., "Evaluation of Infrared Spectroscopic Techniques for Analysing Chitosan," <u>Makromol. Chem.</u> , Vol. 186, pp. 1671-1677 (1985)
/L.B./		FARKAS, V., et al., "Fungal Cell Walls: Their Structure, Biosynthesis and Biotechnological Aspects," <u>Acta Biotechnol.</u> , Vol. 10, No. 3, pp. 225-238 (1990)
/L.B./		FLEET, G., et al., "17 Fungal Glucans - Structure and Metabolism," <u>Encyclopedia of Plant Physiology</u> , Vol. 13B, New Series, pp. 416-440 (1981)
/L.B./		GASSNER, G., et al., "Teichuronic Acid Reducing Terminal <i>N</i> -Acetylglucosamine Residue Linked by Phosphodiester to Peptidoglycan of <i>Micrococcus luteus</i> ," <u>J. Bacteriol.</u> , Vol. 172, No. 5, pp. 2273-2279 (May 1990)
/L.B./		GOBIN, P., et al., "Structural Chemistry of Fungal Polysaccharides," pp. 367-417 (1968)
/L.B./		JOHNSTON, I., "The Composition of the Cell Wall of <i>Asperigillus niger</i> ", <u>Biochem J.</u> , Vol. 96, pp. 651-658 (1965)
/L.B./		KURITA, K., "Controlled Functionalization of the Polysaccharide Chitin," <u>Prog. Polym. Sci.</u> , Vol. 26, pp. 1921-1971 (2001)
/L.B./		KURITA, K., et al., "Studies on Chitin, 3, Preparation of Pure Chitin, Poly (<i>N</i> -acetyl-D-glucosamine), from the Water-Soluble Chitin, <u>Makromol. Chem.</u> , Vol. 178, pp. 2595-2602 (1977)
/L.B./		KURITA, K., et al., "Studies on Chitin, 4, Evidence for Formation of Block and Random Copolymers of <i>N</i> -Acetyl-D-glucosamine and D-Glucosamine by Hetero- and Homogeneous Hydrolyses," <u>Makromol. Chem.</u> , Vol 178, pp. 3197-3202 (1977)
/L.B./		MIMA, S., et al., "Highly Deacetylated Chitosan and Its Properties," <u>Journal of Applied Polymer Sciences</u> , Vol. 28, pp. 1909-1917 (1983)
/L.B./		MAGHAMI, G., et al., "Evaluation of the Viscometric Constants for Chitosan," <u>Makromol. Chem.</u> , Vol. 189, pp. 195-200 (1988)
/L.B./		MUZZARELLI, R., et al., "Chelating, Film-Forming, and Coagulating Ability of the Chitosan-Glucan Complex from <i>Aspergillus niger</i> Industrial Wastes, <u>Biotechnology and Bioengineering</u> , Vol. 22, pp. 885-896 (1980)
/L.B./		NANJO, F., et al., "Enzymatic Method for Determination of the Degree of Deacetylation of Chitosan," <u>Analytical Biochemistry</u> , Vol. 193, pp. 164-167 (1991)

EXAMINER SIGNATURE: /Layla Bland/	DATE CONSIDERED: 09/18/2007
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Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
/L.B./		NIOLA F., et al., "A Rapid Method for the Determination of the Degree of <i>N</i> -acetylation of chitin-chitosan samples by acid hydrolysis and HPLC," <u>Carbohydrate Research</u> , Vol. 238, p. 1-9 (1993)
/L.B./		NO, H., et al., "Preparation and Characterization of Chitin and Chitosan - A Review," <u>Journal of Aquatic Food Product Technology</u> , Vol. 4, No. 2, pp. 27-52 (1995)
/L.B./		NOVIKOV, V., et al., "Synthesis of D(+)-Glucosamine Hydrochloride," <u>Russian Journal of Applied Chemistry</u> , Vol. 70, No. 9, pp. 1467-1470 (1997)
/L.B./		OTTOY, M., et al. "Preparative and Analytical Size-exclusion Chromatography of Chitosans," <u>Carbohydrate Polymers</u> , Vol. 31, pp. 253-261 (1996)
/L.B./		PELLETIER, A., et al., "Chitin/Chitosan Transformation by Thermo-Mechano-Chemical Treatment Including Characterization by Enzymatic Depolymerization," <u>Biotechnology and Bioengineering</u> , Vol. 36, pp. 310-315 (1990)
/L.B./		REGE, P., et al., "Chitosan Processing: Influence of Process Parameters During Acidic and Alkaline Hydrolysis and Effect of the Processing Sequence on the Resultant Chitosan's Properties," <u>Carbohydrate Research</u> , Vol. 321, Nos. 3-4, pp. 235-245 (November 24, 1999)
/L.B./		ROBERTS, G., et al., "Determination of the Viscometric Constants for Chitosan," <u>Int. J. Biol. Macromol.</u> , Vol 4, pp. 374-377 (October 1982)
/L.B./		ROKEM J., et al., "Degradation of Fungal Cell Walls Taking into Consideration the Polysaccharide Composition," <u>Enzyme Microb. Technol.</u> , Vol. 8, No. 10, pp. 588-592 (October 1986) (Abstract)
/L.B./		RUIZ-HERRERA J., "Chemical Components of the Cell Wall of <u>Aspergillus</u> Species," <u>Archives of Biochemistry and Biophysics</u> , Vol. 122, pp. 118-125 (1967)
/L.B./		SABNIS, S., et al., "Improved Infrared Spectroscopic Method for the Analysis of <i>N</i> -deacetylation of Chitosan," <u>Polymer Bulletin</u> , Vol. 39, pp. 67-71 (1997)
/L.B./		SANNAN, T., et al., "Studies on Chitin, 2, Effect of Deacetylation on Solubility," <u>Makromol. Chem.</u> , Vol. 177, pp. 3589-3600 (1976)
/L.B./		SHAHIDI, F., et al., "Food Applications of Chitin and Chitosans," <u>Trends in Food Science & Technology</u> , Vol. 10, pp. 37-51 (1999)
/L.B./		STAGG, C., et al., "The Characterization of a Chitin-Associated D-Glucan from the Cell Walls of <u>Aspergillus Niger</u> , <u>Biochim. Biophys. Acta</u> , Vol. 320, pp. 64-72 (1973)
/L.B./		STAINER, R., et al., "The Microbial World," <u>Prentice-Hall, Inc.</u> , pp. 332-336 (1970)
/L.B./		TAN, S., et al., "The Degree of Deacetylation of Chitosan: Advocating the First Derivate UV-spectrophotometry Method of Determination, <u>Talanta</u> , Vol. 45, pp. 713-719 (1998)
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Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
/L.B./		US 2005-0245482 A1	11/3/2005	Fan et al.

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee

Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS

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